WALTHER

Small-Bore Rifles

Cal. .22 l. r.

June 1964 Edition

Instruction Manual

Walther Small-Bore Rifles for Target Shooting

fig. 1

Jll. 1
Small-bore rifle Mod. KKS-D with diopter rear sight, weight approx. 3.8 kg.
(Also available with micro rear sight as Mod. KKS-V.)

fig. 2

Jll. 2
Small-bore Master rifle Mod. KKM, weight approx. 4.5 kg.

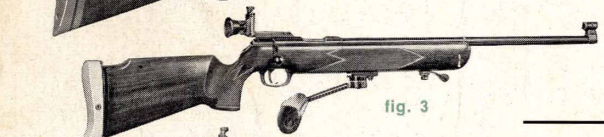


fig. 3

Jll. 3
Small-bore Master rifle Mod. KKM II, with hook plate and palm rest, weight approx. 5.5 kg.

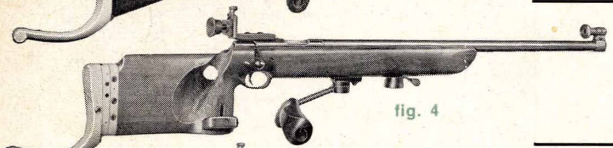


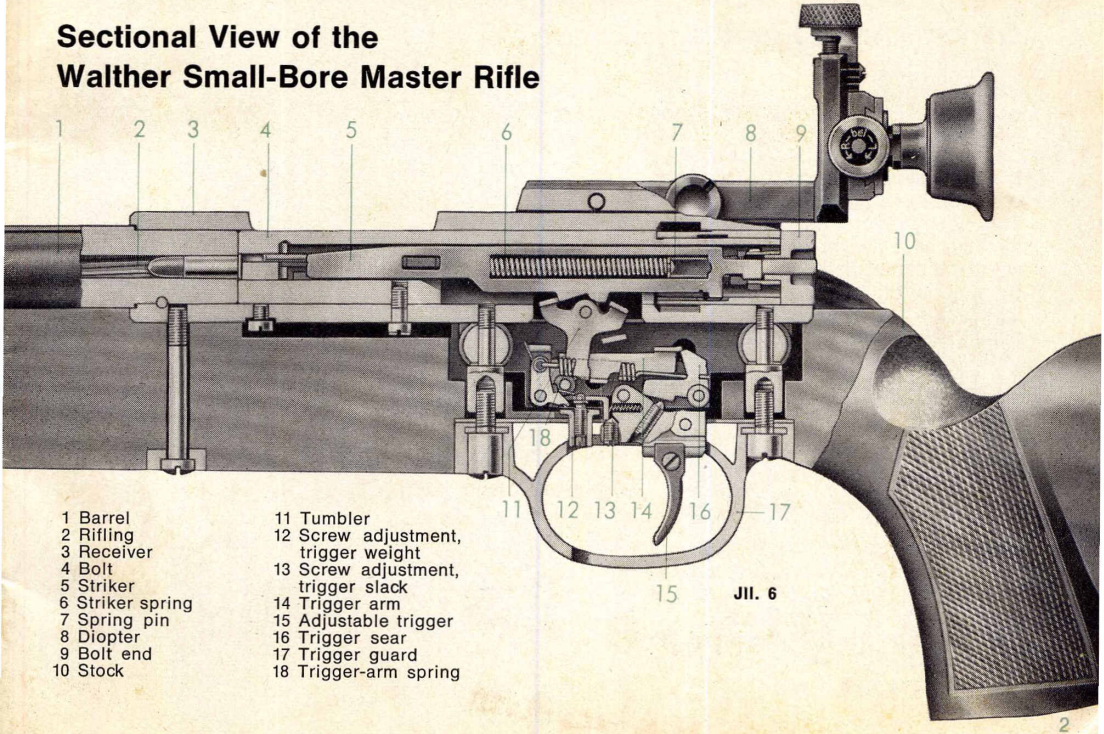
fig. 4

Jll. 4
Small-bore Match rifle Mod. KKM-Match, weight with conical barrel = approx. 7.1 kg, with cylindrical barrel = approx. 7.8 kg.

fig. 5

Jll. 5
Small-bore Standard rifle Mod. UIT-Standard, weight approx. 5 kg.

Sectional View of the Walther Small-Bore Master Rifle



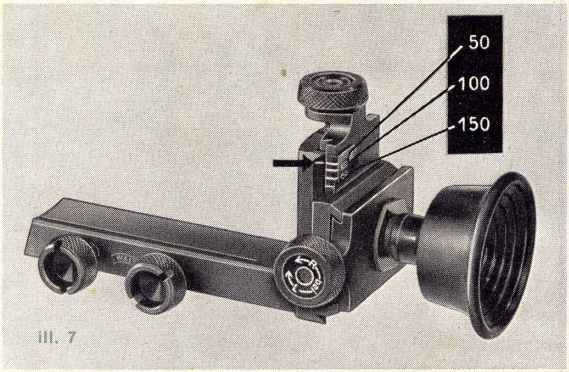
1 Barrel
2 Rifling
3 Receiver
4 Bolt
5 Striker
6 Striker spring
7 Spring pin
8 Diopter
9 Bolt end
10 Stock
11 Tumbler
12 Screw adjustment, trigger weight
13 Screw adjustment, trigger slack
14 Trigger arm
15 Adjustable trigger
16 Trigger sear
17 Trigger guard
18 Trigger-arm spring

Jll. 6

General Advice on the use of WALTHER Small-Bore Rifles:

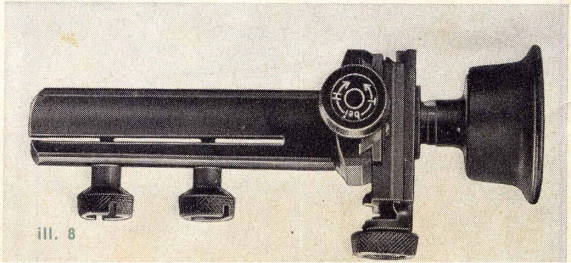
1. Sights

Before commencing to shoot, ensure that the screws holding the front and rear sight are tightened up.
The prism diopter is adjustable for 50, 100, and 150 m. Setting the rear sight for these distances is effected by means of the elevation screw. The scale markings must in each instance coincide with the Zero mark (see arrow).
Windage correction: – If shots group to right, turn knob = R to the left (anti-clockwise); if shots go to the left, turn knob = L clockwise (as shown by arrows on knob).



ill. 7

Elevation correction: – If shots go low, turn knob = T to the left; if shots group high, turn knob = H to the right.
3 clicks result in an alteration of the mean centre of the group by one ring on the target.


ill. 8

Ill. 9. Adjustable aperture rear sight with nipple, but without rubber eyepiece. Available for small-bore rifles with diopter.

Ill. 10. Umbral and Uropal filters can be inserted in the rubber eyepiece.

Ill. 11. Removal of the knurled locking ring, which is also made available in 25 mm and 35 mm dia.

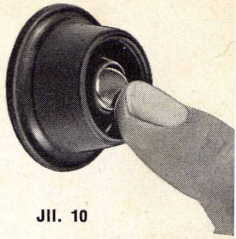
Ill. 12. The front sight has been removed from the saddle. When withdrawing or inserting front sight elements, note difference in width of the two lips.

Ill. 13. Post front sight, width increasing by 0.2 mm from 2 mm to 3 mm.

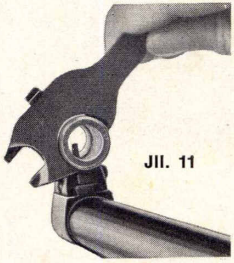
Ill. 14. Ring front-sight with vertical beam; diameter increasing by 0.2 mm from 2 mm to 3 mm.

Ill. 15. Ring front sight with horizontal beams; diameter increasing by 0.2 mm from 3 mm to 4.4 mm.

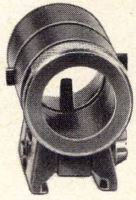
Ill. 9



Ill. 10



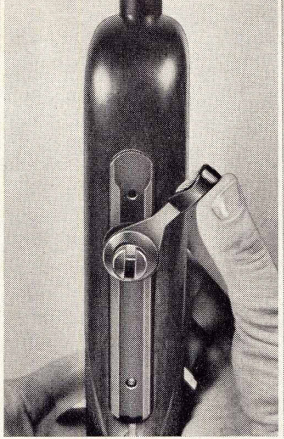
Ill. 11



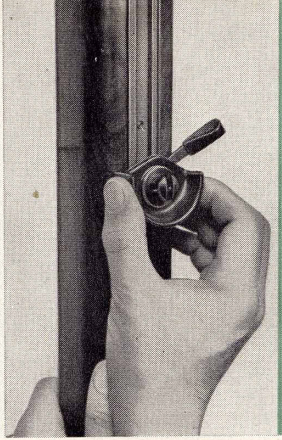
Ill. 12

Ill. 13 Ill. 14 Ill. 15

Jll. 16



Jll. 17



Jll. 18

2. Sling Attachment

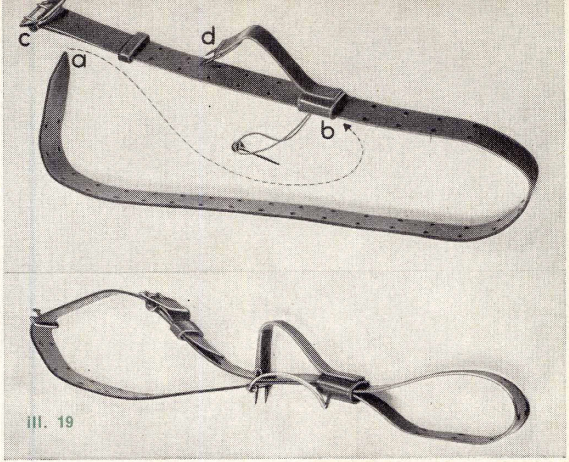
Jll. 16. When inserting the sling holder into the groove of the sling rail, see to it that the clamping lever stands sideways. Move the sling holder to the required position.

Jll. 17. To fix the holder, push the lever upwards (see illustration). When altering the position of the holder, reverse the order of manipulation.

A sling holder with handstop is available for Mod. KKM II and for the match rifle Mod. KKM Match (see **Jll. 18**).

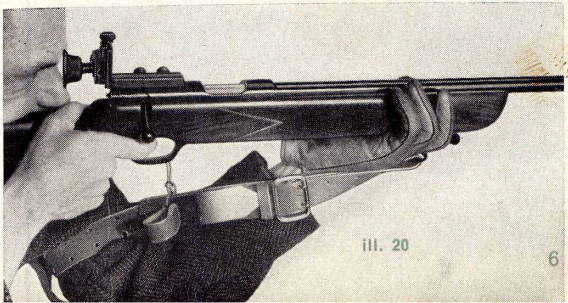
3. WALTHER Rifle Sling

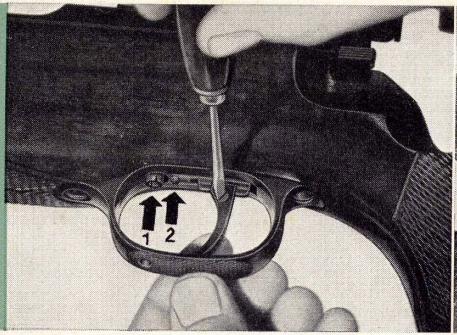
Jll. 19. Push sling end (a) through loop (b), then apply sling swivel and buckle (c). Adjust length as required by the shooter. When applying the sling to the left upper arm (left-handed shooters, to the right upper arm), push loop (b) back until the sling fits the arm firmly. Finally, push fixing hook (d) through both parts of the sling and insert locking pin in the holes in the hook.



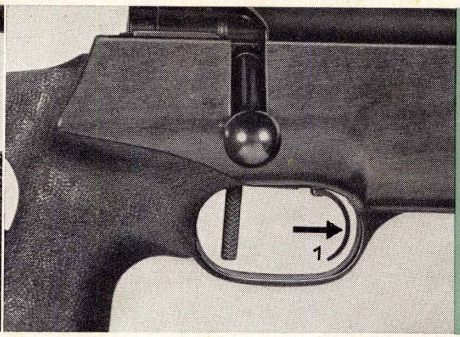
Ill. 19

Jll. 20. Attach the sling swivel to the sling holder. The rifle may now be brought up to the shooting position. The sling, owing to its rigid method of fixing, cannot change its firm position.


Ill. 20



Jll. 21



Jll. 22

4. Match Triggers

Jll. 21. Match trigger. The trigger is adjustable lengthwise and can be made to slope outwards to either the left or the right.

Screw 1 for adjustment of trigger pull and let-off (to increase, turn right; to decrease, turn left). Screw 2 for adjustment of trigger slack (to shorten, turn right; to lengthen turn left).

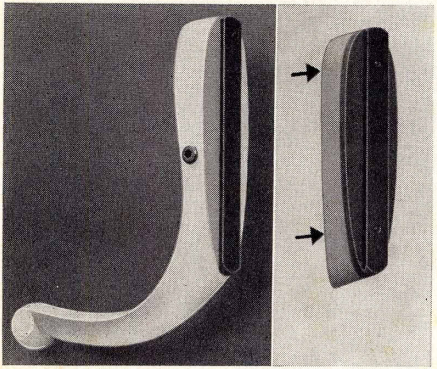
Jll. 22. Match trigger with set-trigger. To use the device, push trigger 1 forward until it is engaged (in direction of arrow). The rear trigger now has a very light and instantaneous let-off.

If trigger 1 is set and the shot is not to be fired, apply safety at once and open the breech carefully!
This is not a combination trigger!

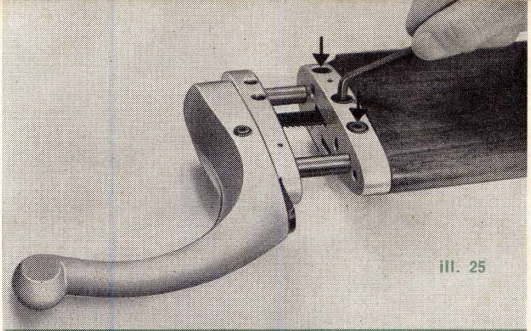
5. Rubber butt plates and hook plates

Jll. 23. Hook plate with dove-tail bar, adjustable vertically, for Models KKM II and KKM-Match.

Jll. 24. Rubber but plate with dove-tail bar. To shift vertically, loosen the two screws indicated by arrows.



Jll. 23 Jll. 24



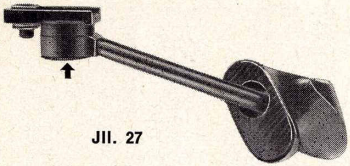
ill. 25

Jll. 25. Hook plate with extension device. To adjust, loosen the two screws indicated by arrows, then shift to the required length by turning the Allen screw in the middle. The toothed rack is provided with a graduated scale. Tighten the two outer screws again when the length has been adjusted.
When removing either plate from the stock, be careful not to damage the dove-tail slot in the butt.

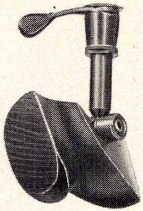
Jll. 26. Knurled screw, to replace Allen screw, can be supplied upon request.

Jll. 26

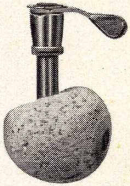
6. Palm Rests



Ill. 27



Ill. 28



Ill. 29

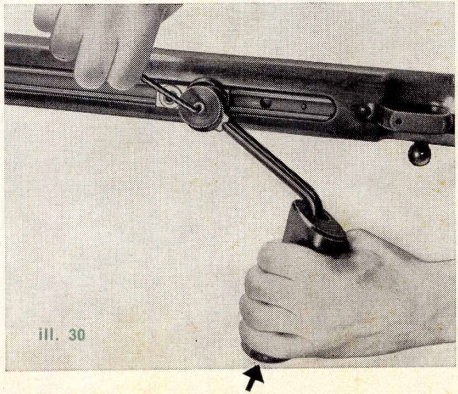
Ill. 27. Palm rest with extension. Can be adjusted to suit, – laterally and vertically. The grip can be turned.

Ill. 28. Palm rest with direct-support fitting, grip and height adjustable.

Ill. 29. Palm rest with cork grip. The position and height of the grip are adjustable.

Ill. 30. To fit the palm rest, loosen the clamping screw in front and insert base in the sling rail, then tighten the clamping screw. Set the position of the rest by means of the Allen screw (see illustration) and turn the grip as required (see arrow).

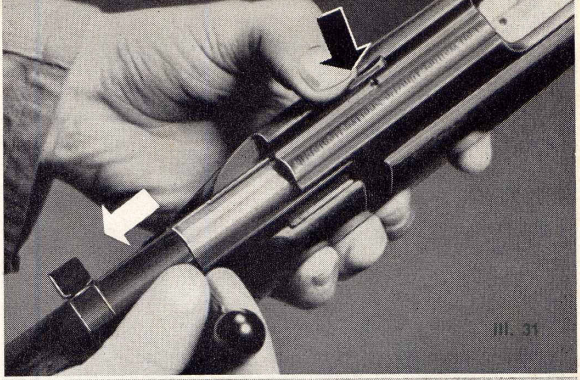
The palm rests (**Ill. 28** and **Ill. 29**) are attached to the sling rail in the same manner as the sling holder.



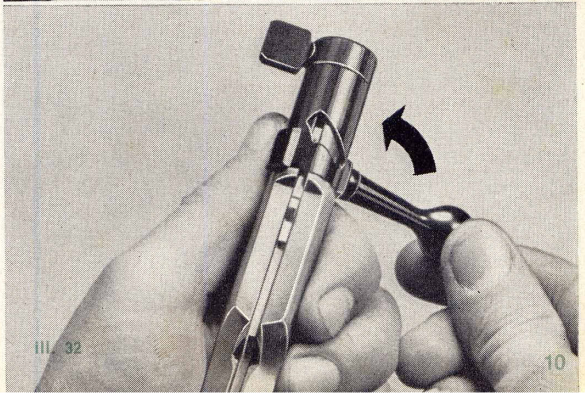
Ill. 30

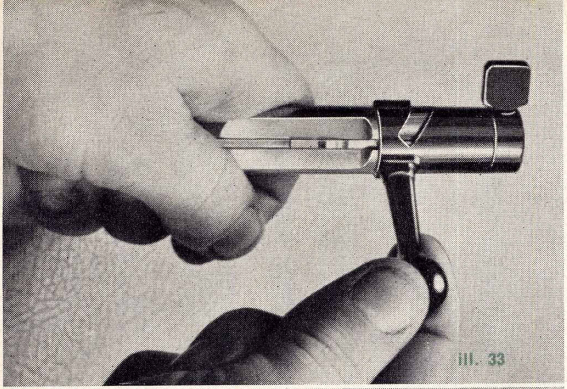
7. Dismantling the WALTHER Small-Bore Rifle Action

Jll. 31. Opening the breech, thereby cocking the action. Push the bolt-lock on the left on the action body down (see arrow) and withdraw the bolt.

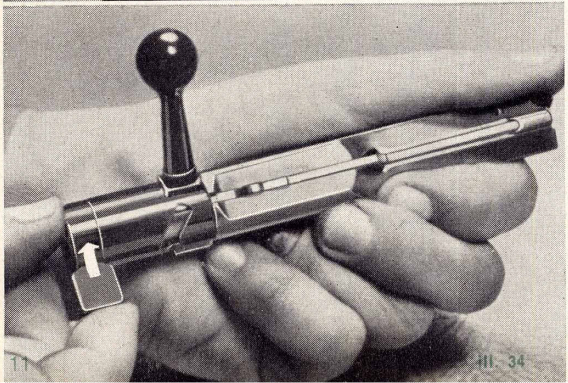


Jll. 32. Hold the bold firmly with the left hand, uncock the bolt by turning the bolt handle fully over to the left (see arrow in illustration 32).



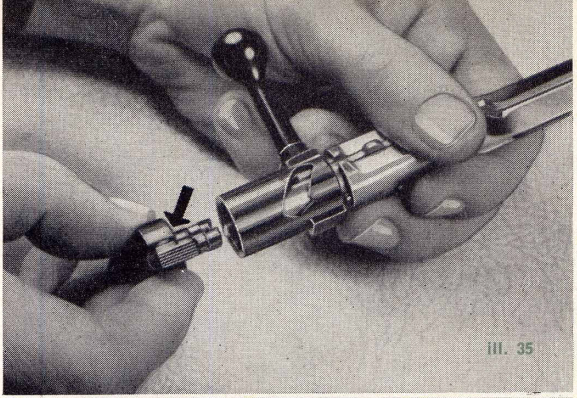


Jll. 33. The bolt is uncocked. Note the position of the bolt handle. The inner end of the bolt handle now stands close to the striker groove in the bolt.

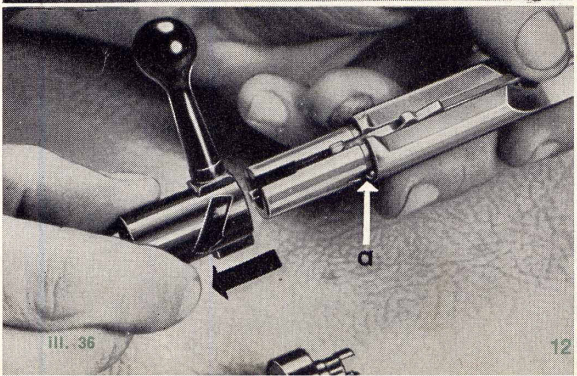


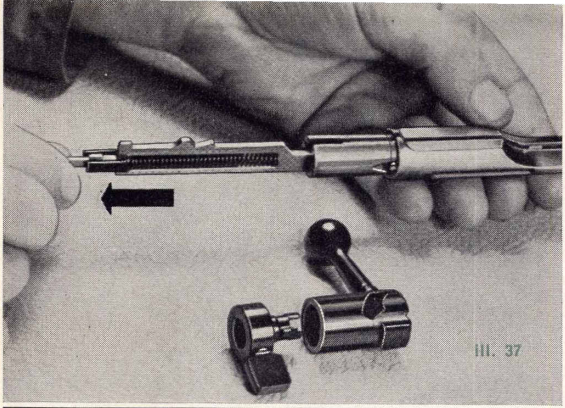
Jll. 34. Turn the safety lever fully over to the left (in the direction of the arrow).

Jll. 35. Withdraw the bolt-end with the safety lever to the rearward. Ensure that the spring pin opposite the safety lever (as indicated by arrow) does not fall out. Hold the bolt horizontally.

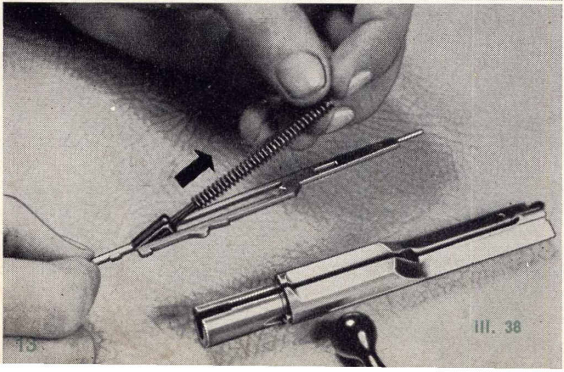


Jll. 36. Withdraw the bolt-handle unit to the rearward. Here again, see that the spring pin (a) does not fall out. Hold the bolt horizontally.





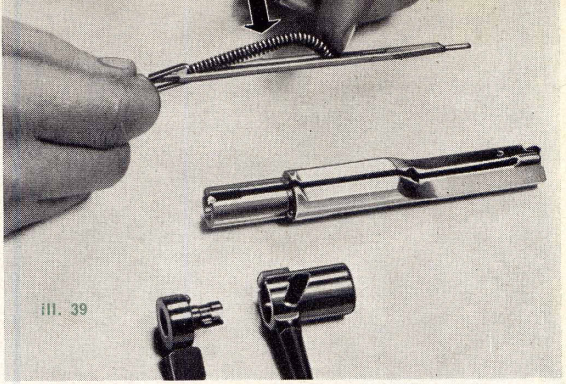
Jll. 37. Withdraw striker and striker spring to the rearward.



Jll. 38. Depress the striker spring and remove to the forward together with forked spring pin.
The action is now completely dismantled.

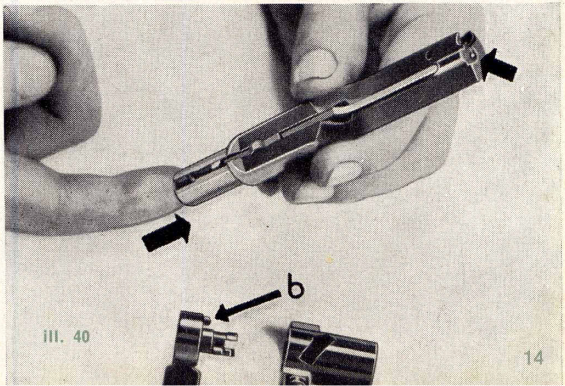
8. Assembling the WALTHER Small-Bore Rifle Action

Jll. 39. Insert the striker spring. Push the upper end down and slip on to pinted lip in the upper end of the slot in the striker.

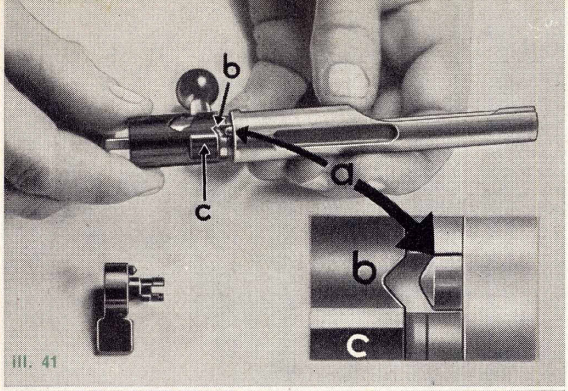


Jll. 39

Jll. 40. Insert the striker in the bolt and push until the point of the striker appears in the hole in the bolt face (see arrow).
Ensure that the spring pin in the bolt end (b) does not drop out and goes astray.

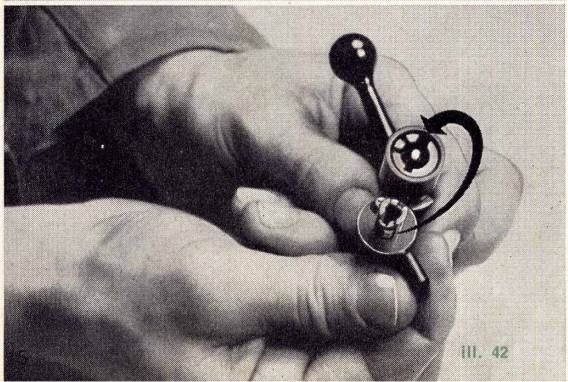


Jll. 40



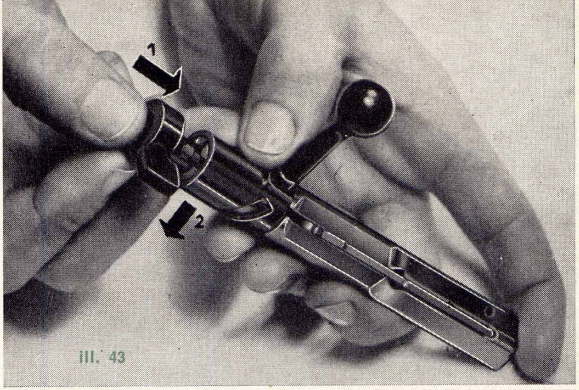
ill. 41

Jll. 41. Put the bolt handle on the bolt. Make sure that the spring pin (a) is seated correctly in the notch (b) in the bolt handle unit at the lug (c).
The part concerned is shown enlarged in the right-hand corner, to explain the exact positioning.


ill. 42

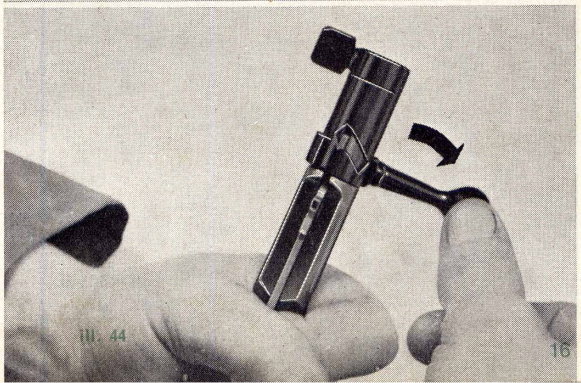
Jll. 42. Bolt, complete with bolt handle, as well as bolt-end with safety lever, seen from above. When replacing the bolt-end, make sure that the wider lug on the latter is seated correctly in the wider recess in the bolt, as shown by arrow.

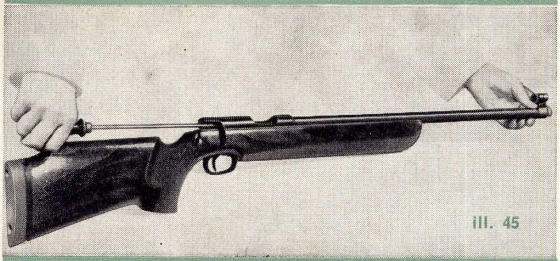
Jll. 43. As shown in the illustration, push the bolt handle forward, fit the bolt-end firmly to the bolt as described before, then turn fully over to the right together with the bolt.



Ill. 43

Jll. 44. Hold the bolt firmly with the left hand and turn the bolt handle to the right with the right hand. The bolt may now be put back into the action body. When doing so, press the bolt lock on the action body downward.


Ill. 44



ill. 45

9. Care of the rifle

After shooting, clean the bore of the barrel thoroughly and wipe with a patch saturated with non-resinous and acid-free oil.

Jll. 45. Place the fingertip over the muzzle so as to prevent the tip of the cleaning rod (jag) from coming out of the muzzle. Do not push the jag with the patch right out of the muzzle and then try to withdraw the rod by force.

Lubricate the bolt lightly and leave a thin coat of oil on all metal parts when the rifle is not in use. Wipe the bore with a dry patch before use.

It is recommended to remove the lead deposit from the chamber with a brass wire brush (NOT WITH A STEEL WIRE BRUSH) after firing about 1 000 shots. The brush must penetrate the barrel to a depth of not more than 60–80 mm. Oil the bore again afterwards.

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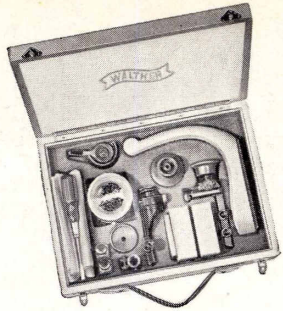


Jll. 46

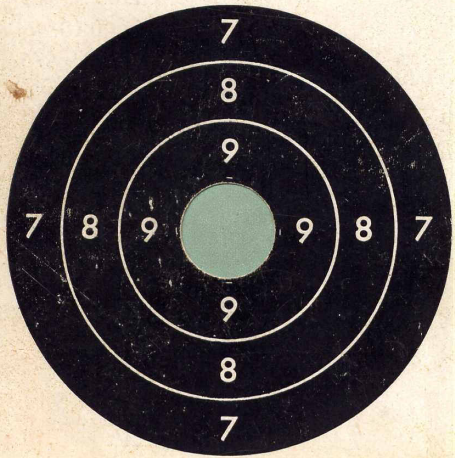
WALTHER Kit Case (Jll. 46) containing: screw-driver, cleaning cloth, 2 oil bottles with drip oiler, screw-lid box for front singht elements.

10. Test Card

Small-bore rifle No. .....

Model

10 shots at 50 m



Signature:

Some of the more important successes achieved with WALTHER rifles in 1962 and 1963.

World Championships Cairo 1962:

5 Silver-, 4 Bronze Medals, and several prominent places among the ‚Ten Best' marksmen.

European Championships Oslo 1963:

3 Gold-, 3 Silver-, and 1 Bronze Medal, and further places among the ‚Ten Best' marksmen competing in the several positional events.

Swiss National Championships 1963:

Record score in the „Three-positional" event, attained with a WALTHER small-bore rifle: 1160 points.

World Postal Match 1963:

Highest score, attained with a WALTHER small-bore rifle: 1154 points.